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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IP030004	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/ CN03/00366	International filing date (day/month/year) 19 MAY 2003 (19. 05. 03)	Priority date (day/month/year) 9 SEPTEMBER 2002 (09. 09. 02)
International Patent Classification (IPC) or national classification and IPC IPC⁷: H04L12/28		
Applicant INSTITUTE OF SOFTWARE CHINESE ACADEMY OF SCIENCES et al		
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.		
2. This REPORT consists of a total of <u>3</u> Sheets, including this cover sheet.		
<input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and /or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).		
These annexes consist of a total of _____ Sheets.		
3. This report contains indications relating to the following items:		
<input checked="" type="checkbox"/> I Basis of the report		
<input type="checkbox"/> II priority		
<input type="checkbox"/> III Non-establishment of opinion with regard to novelty ,inventive step and industrial applicability		
<input type="checkbox"/> IV Lack of unity of invention		
<input checked="" type="checkbox"/> V Reasoned statement under Article 35(2)with regard to novelty ,inventive step or industrial applicability; citations and explanations supporting such statement		
<input type="checkbox"/> VI Certain documents cited		
<input type="checkbox"/> VII Certain defects in the international application		
<input type="checkbox"/> VIII Certain observations on the international application.		

Date of submission of the demand 19 may 2003 (19. 05. 03)	Date of completion of this report 25 july 2003 (25. 07. 03)
Name and mailing address of the IPEA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451	Authorized officer  Telephone No.(86-10) 62093164

I. Basis of the report

1. With regard to the elements of the international application:^{*}

the international application as originally filed
 the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

the claims:

pages _____, as originally filed

pages _____, as amended (together with any statement) under Article 19

pages _____, filed with the demand

pages _____, filed with the letter of _____

the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. with regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
 the language of publication of the international application (under Rule 48.3(b)).
 the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in written form.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority in written form.
 furnished subsequently to this Authority in computer readable form.
 The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

the description, pages _____
 the claims No. _____
 the drawings, sheets/fig. _____

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).^{**}

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement:

Novelty (N)	Claims 1-6	YES
	Claims _____	NO
Inventive step (IS)	Claims 1-6	YES
	Claims _____	NO
Industrial applicability (IA)	Claims 1-6	YES
	Claims _____	NO

2. Citations and explanations (Rule 70.7)

The present invention relates to a community network system with broadband integrated services. It includes video server, video database, television conference server, satellite digital television receiver server, network chargement server, network management server, 1000 mega exchange, 100 mega exchange, family gateway, wireless gateway, digital television, analogue television, computer, pc having the wireless interface, fixed telephone and wireless IP handset. The IP handset can be connected between the 100 mega exchange and the family gateway in series, and also can be connected between the family gateway and the computer in series. The wireless gateway connects to the handset and the mobile facility via the wireless circuits. Satellite digital television receiver server connects with the antenna of receiving the satellite signals, the trunk 1000 mega exchange connects to the wide area network through the 1000 mega port or 100 mega port.

JP-A-2001177578 discloses the integrated information communication system connected to internet, which performs full duplex communication between internet protocol terminals using terrestrial channel provided by satellite path. The integrated communication system (ICS) user frame with user address is converted into network frame and transmitted to target access control device (2-5). The ICS system converts network frame to user frame using conversion table so that internet protocol (IP) terminals communicate with each other through full duplex communication using terrestrial ICS channel provided by satellite communication path.

EP-A1-1137223 discloses the datagram network node apparatus operation for telecommunication applications, which involves forwarding flow component datagrams to flow precursor datagrams based on congestion indication.

CN-A-1264086 discloses a broadband integrated service information network system for small area or families features. It integrates all serves of integrated computer network, cable TV network and telephone network, and is composed of small-area network and family networks. Said family network is a miniature LAN composed of central server (a small processor) and more terminals in one family or office. Said small-area network is a LAN composed of central server, hub and more family networks.

CN-A-1235455 discloses a broad-band multi-service digital switch system which is composed of a number of subsystems named "broad-band multi-service digital switch subnetworks" and existing traditional telecommunication network, all of which are interconnected to each other.

The claimed invention differs substantially from the cited documents. Consequently, the claimed invention is considered to be novel, to involve an inventive step and to have industrial applicability.